

012004

14230 U.S. PTO

PTO/SB/05 (08-03)

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UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	11-0381C
First Inventor	Arvel B. Witte
Title	See 1 in Addendum
Express Mail Label No.	ET837519586US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

## ADDRESS TO:

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

1. ☐ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 16]  
(preferred arrangement set forth below)  
- Descriptive title of the invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table,  
or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
5. Oath or Declaration [Total Sheets 3]  
a. ☐ Newly executed (original or copy)  
b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)  
i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
name in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a. ☐ Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ Paper  
c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))  
37 CFR 3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney  
11. ☐ English Translation Document (if applicable)  
12. ☐ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1499 Citations  
13. ☒ Preliminary Amendment  
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)  
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)  
16. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.  
17. ☒ Other: See Attachment

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 07/068,501

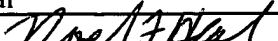
Prior application information:

Examiner Gabriel SukmanArt Unit: 3641For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☐ Customer Number:OR ☒ Correspondence address below

Name	Noel F. Heal, Northrop Grumman Space Technology		
Address	One Space Park, E1/2041		
City	Redondo Beach	State	CA
Country		Zip Code	90278
	Telephone	310-812-4910	Fax

Name (Print/Type)	Noel F. Heal	Registration No. (Attorney/Agent)	26,074
Signature		Date	01/20/2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

031356 U.S. PTO  
10/761700

012004

**Attorney Docket No.:** 11-0381C

**First Inventor:** Arvel B. Witte

**Title:** INFRARED FRIEND OR FOE IDENTIFICATION SYSTEM

**Express Mail Label No.:** ET837519586US

**UTILITY PATENT APPLICATION TRANSMITTAL (PTO/SB/05)**

**17. Other Accompanying Application Parts (Cont'd):**

New Application Transmittal in Duplicate

Notification of Filing of Continuing, Divisional or

Continued Prosecution Application

## Addendum

1. INFRARED FRIEND OR FOE IDENTIFICATION SYSTEM

Preliminary Classification:

Proposed Class:

Subclass:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Arvel B. Witte

For (title): INFRARED FRIEND OR FOE IDENTIFICATION SYSTEM

1. Type of Application

This application is for a continuation.

2. Benefit of Prior U.S. Application (35 U.S.C. §§ 119(e), 120, or 121)

The new application being transmitted claims the benefit of prior U.S. application. Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

EXPRESS MAILING UNDER 37 C.F.R. § 1.10\*

(Express Mail label number is *mandatory*.)

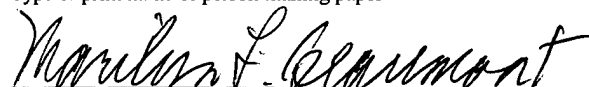
(Express Mail certification is *optional*)

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date \_\_\_\_\_ in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 as "Express Mail Post Office to Addressee" Mailing Label No. ET837519586US

Marilyn L. Beaumont

Type or print name of person mailing paper

Date: January 20, 2004

  
Signature of person certifying

**WARNING:** Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

**3. Papers Enclosed**

**A. Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application**

16 Page(s) of Specification  
5 Page(s) of Claims  
3 Sheet(s) of Drawing(s)--Formal

**B. Other Papers Enclosed**

3 Page(s) of declaration and power of attorney  
1 Page(s) of abstract

**4. Additional Papers Enclosed**

Amendment to claims

Cancel in this applications claims 10 and 12 before calculating the filing fee.

Preliminary Amendment

**5. Declaration or Oath**

Enclosed

Executed by:

\* inventor.

**6. Inventorship Statement**

The inventorship for all the claims in this application is the same.

**7. Language**

English

**8. Fee Calculation (37 C.F.R. § 1.16)**

Regular Application

CLAIMS AS FILED									
Basic Fee 37 C.F.R. § 1.16(a) \$770.00									
Number Filed		Number Extra				Rate			
Total Claims (37 C.F.R § 1.16(c))									
22	-	20	=	2	x	\$	18.00	=	\$ 36.00

Independent Claims (37 C.F.R § 1.16(b))	2	-	3	=	0	x	\$	86.00	=	\$	0.00
Multiple Dependent Claim(s), if any (37 C.F.R § 1.16(d))							\$	290.00		\$	0.00

Amendment cancelling extra claims is enclosed.

Filing Fee Calculation \$806.00

**9. Fee Payment Being Made at This Time**

Enclosed

Filing Fee \$806.00

**Total Fees Enclosed \$806.00**

**10. Method of Payment of Fees**

Authorization is hereby made to charge the amount of \$806.00 to Deposit Account No. 14-1325.

Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this paper is attached.

**11. Authorization to Charge Additional Fees**

The Office is hereby authorized to charge, in the manner shown above, the following additional fees that may be required by this paper and during the entire pendency of this application.

37 C.F.R. § 1.16(a), (f) or (g) (filing fees)

37 C.F.R. § 1.16(b), (c) or (d) (presentation of extra claims)

37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a))

37 C.F.R. § 1.17 (application processing fees)

**12. Instructions as to Overpayment**

Credit Account No. 14-1325.

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S.  
APPLICATION CLAIMED  
(37 C.F.R. § 1.78)**

**13. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed**

- (a) This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor in this application is the same.

**14. NOTIFICATION IN PARENT APPLICATION OF THIS FILING**

A notification of the filing of this continuation is being filed in the parent application, from which this application claims priority under 35 U.S.C. § 120.

Date: January 20, 2004



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Noel F. Heal, No. 26,074  
Northrop Grumman Space Technology  
One Space Park, E1/2041  
Redondo Beach, CA 90278  
Tel. No. 310-812-4910

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Arvel B. Witte  
Application No.:  
Filed: 01/20/2004  
For: INFRARED FRIEND OR FOE  
IDENTIFICATION SYSTEM

Group No.: 3641  
Examiner: Gabriel Sukman

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**EXPRESS MAIL CERTIFICATE**

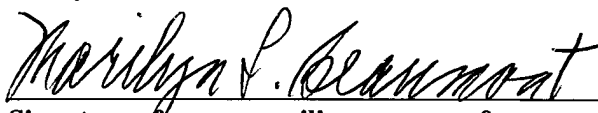
"Express Mail" label number ET837519586US  
Date of Deposit 01/20/2004

I hereby state that the following *attached* paper or fee

1. Utility Patent Application Transmittal (3 pgs.)
2. Notification of Filing of Continuing, Divisional or Continued Prosecution Application (1 pg.)
3. New Application Transmittal in Duplicate (8 pgs.)
4. Preliminary Amendment (10 pgs.)
5. Specification (16 pgs.)
6. Drawings (3 sheets)
7. Declaration (3 pgs.)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Marilyn L. Beaumont

  
Signature of person mailing paper or fee



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Arvel B. Witte  
Application No.: 07/068,501  
Filed: July 1, 1987  
For: INFRARED FRIEND OR FOE  
IDENTIFICATION SYSTEM


Group No.: 3641  
Examiner: Gabriel Sukman

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

NOTIFICATION OF FILING OF CONTINUING,  
DIVISIONAL OR CONTINUED PROSECUTION APPLICATION

Notification is hereby being made of the filing of a continuation application for this case concurrently herewith.

Date: January 20, 2004

  
Noel F. Heal, No. 26,074  
Northrop Grumman Space Technology  
One Space Park, E1/2041  
Redondo Beach, CA 90278  
310-812-4910

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**CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10\***  
(When using *Express Mail*, the *Express Mail* label number is *mandatory*;  
*Express Mail* certification is optional.)

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37 C.F.R. § 1.10\*

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G facsimile transmitted to the Patent and Trademark Office, (703) \_\_\_\_\_ - \_\_\_\_\_

  
Signature

Date: January 20, 2004

Marilyn L. Beaumont

(type or print name of person certifying)

\* Only the date of filing ( ' 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under ' 1.8 continues to be taken into account in determining timeliness. See ' 1.703(f). Consider "Express Mail Post Office to Addressee" ( ' 1.10) or facsimile transmission ( ' 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.